



SR2200 BLACK BOX RECEIVER

SR2200 is a high-end external receiver, intended for government, military, security, surveillance, media monitoring and industrial applications. The frequency range is 25 MHz to 3 GHz.

The external unit connects to an IBM PC compatible computer via a serial interface cable or USB.

Connectivity

At the rear of the unit, there is a BNC connector for the antenna, USB and serial control ports, 10.7 MHz I.F. OUT (to connect for example the SDU5600 Spectrum analyzer), external speaker out, phones out, power and a ACC data output interface (discriminator & sound output).



On the front of the unit, there is a connector labeled “Display”. This connector can be used for testing the SR2200 without the need of a PC, and as an extension for future developments.

Using the SR2200 black box receiver has numerous advantages:

- Small size and low weight
- High sensitivity
- High dynamic range
- Availability of additional software functions (control software is currently under development).

Innovation and breakthrough hardware technologies making it possible to integrate radio with computing to an extent never seen before.

So what are the advantages of marrying the two?

- The SR2200 (PC) front-panel functions are more flexible and powerful than those of traditional radio. There simply is not enough physical space on a fixed front panel of a traditional receiver for the multitude of settings and options which are available on the SR2200 black box receiver.
- Mobile applications: PC-controlled receivers are often used in mobile and portable applications. Connected to a laptop computer, they represent an excellent alternative to conventional spectrum analyzers or other dedicated monitoring equipment.
- The processing power of a PC can be used to process received radio signals through third-party software.
- See what is going on on the bands with a powerful spectrum scope.
- Firmware and control software is being continuously improved and new features are being introduced. (control software is currently under development).

SPECIFICATIONS SR2200				
Configuration	Triple conversion superheterodyne			
Frequency coverage	25 - 3GHz			
Reception modes	AM / NFM / WFM / SFM			
Sensitivity	Band	Sensitivity	IP3 (dBm)	S/N (dB)
IP3 S/N	25M-225MHz	NFM: 0.35uV (12dB SINAD)	1	40
		AM: 0.6uV (10dB S/N)		
		WFM: 2.0uV (12dB SINAD)		
	225M-1.7GHz	NFM: 0.35V (12dB SINAD)	1	35
		AM: 0.8 uV (10dB S/N)		
		WFM: 2.0uV (12dB SINAD)		
	1.7GHz – 2.7GHz	NFM: 0.6uV (12dB SINAD)	1	32

	2.7GHz–3GHz	NFM: 1.5uV (12dB SINAD)	1	30
IF frequencies	1st IF	255.3MHz 744.3MHz		
	2nd IF	10.7MHz		
	3rd IF	455kHz		
Tuning steps	100 Hz to 100 kHz (10 Hz incremental)			
Selectivity	NFM:	+/-10kHz	60dB	
	AM/SFM:	+/-6kHz	60dB	
	WFM	+/-180KHz	60dB	
Spurious Sensitivity	60dB>			
Adjacent Selectivity	55dB >			
Dynamic Range	90dB>			
Unwanted Spurious Emissions	<-57dBm			
3rd IP	+1.0 dBm			
Frequency stability	±1ppm(0~50°C)			
Audio output	2W (8 Ohm) max. @ 10% distortion (no internal speaker!)			
Power requirements	12 - 16V DC, 0.5 A with 1W audio output			
Aerial connection	50 Ohm BNC			
IF output	10.7MHz			
Control interface	RS-232C / USB , 19200bps			
Operation temperature	0 to 50 degrees Celsius			
Dimensions	200(W) x 31(H) x 230(D) mm			
Weight	1.3kg			
Nominal filter bandwidths	6kHz, 15kHz, 300kHz.			
Memory channels	1000 (10 banks)			
Search banks	40			
Scan/Search Rate	25 steps per second.			
Pass frequencies	2000			
Priority channels	1			

Specifications subject to change without notice or obligation.